

Notice of Allowability

Application No.

09/965,030

Examiner

Kyung H. Shin

Applicant(s)

NIWA ET AL.

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/16/07.
2. ☒ The allowed claim(s) is/are 1,2,5,6,9 and 10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


DAVID WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/16/07 has been entered.

2. Claims 1, 2, 5, 6, 9, 10 are **allowed**. Claims 3, 4, 7, 8, 11, 12 were canceled. Independent claims are 1, 5, 9.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

PRESSON, THOMAS	41442 (Attorney)	(212)588-0800
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on 8/17/2007.

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4. The application has been amended as follows:

1. (Currently Amended) A data transfer apparatus formed of an IEEE-1394 bridge conforming to a broadband radio access network (BRAN) specification for connecting a plurality of buses and for transmitting data through a first bus to a second bus according to destination information related to the data, the data transfer apparatus being connected to the second bus through a second data transfer apparatus, the data transfer apparatus comprising:

transferring means for transferring the data from the data transfer apparatus to the second data transfer apparatus according to the destination information;

determining means for determining, according to the destination information, whether a node serving as a destination of the data is connected to the second bus ;

wherein, when the determining means determines that the node is not connected, a data transmission source receives a predetermined error information signal,

wherein the predetermined error information signal prevents retransmission;

wherein at least one packet of the data, transmitted to the node that is not connected, is processed as an error packet;

wherein the destination information comprises a node ID and a bus ID; and

wherein the data transfer apparatus is formed of an IEEE-1394 bridge conforming to the ~~BRAN~~ broadband radio access network (BRAN) specification.

5. (Currently Amended) A network system formed of an IEEE-1394 bridge conforming to a broadband radio access network (BRAN) specification comprising:

a plurality of buses connected through a data transfer apparatus, the data transfer apparatus for connecting the plurality of buses and for transmitting data transferred through its own bus to a second bus

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according to destination information attached to the data,

wherein the data transfer apparatus is connected to the second bus through a second data transfer apparatus, and the data transfer apparatus further comprises:

transferring means for transferring the data from the data transfer apparatus to the second data transfer apparatus according to the destination information;

determining means for determining, according to the destination information, whether a node serving as a destination of the data is connected to the second bus, and, when it determines that the node is not connected, a data transmission source receives a predetermined error information,

wherein the predetermined error information signal prevents retransmission;

wherein at least one packet of the data, transmitted to the node that is not connected, is processed as an error packet;

wherein the destination information comprises a node ID and a bus ID; wherein the data transfer apparatus is formed of an IEEE-1394 bridge conforming to the ~~BRAN~~ broadband radio access network (BRAN) specification.

9. (Currently Amended) A data transfer method formed of an IEEE-1394 bridge conforming to a broadband radio access network (BRAN) specification for a data transfer apparatus for connecting buses and for transmitting data transferred through a first bus to a second bus according to destination information attached to the data, the data transfer apparatus being connected to the second bus through a second data transfer apparatus, the data transfer method comprising:

a transferring step of transferring the data from the data transfer apparatus to the second data transfer apparatus according to the destination information;

a determining step of determining, according to the destination information, whether the node serving as a destination of the data is connected to one of the buses; and

a transmitting step of, when it is determined that the node is not connected, transmitting predetermined error information to a data transmission sources

wherein the predetermined error information signal prevents retransmission;

wherein at least one packet of the data, transmitted to the node that is not connected, is processed as an error packet;
wherein the destination information comprises a node ID and a bus ID;

wherein the data transfer apparatus is formed of an IEEE-1394 bridge conforming to the ~~BRAN~~ broadband radio access network (BRAN) specification.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance:

The current prior art discloses the capability to reset an IEEE 1394 communications bus in the event a network node is connected or disconnected. The current prior art, also discloses the capability for a generic and non-IEEE 1394 I/O communications bus to determine the existence of a destination node. However, the current prior art does not specifically disclose for between an IEEE 1394 bridge and a broadband radio access network (BRAN) specification to detect the existence of a destination node, or the capability to send a predetermined error code to the source node for a communications path, thus retransmission is prevented.

The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung H. Shin whose telephone number is (571) 272-3920. The examiner can normally be reached on 9:30 am - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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